

REMARKS

The office action of June 18, 2007, has been carefully considered.

It is noted that claims 3-5 are objected to under 35 U.S.C. 1.75(c).

Claims 1 and 6-10 are rejected under 35 U.S.C. 102(b) over the patent to Barthomeuf.

Claims 3-5 are rejected under 35 U.S.C. 103(a) over Barthomeuf.

In view of the Examiner's objection to rejections of the claims, applicant has amended claims 1 and 3.

Applicant has amended claim 3 to depend from claim 1. With this change it is respectfully submitted that the objection to claims 3-5 under 37 C.F.R. 1.75(c) is overcome and should be withdrawn.

It is respectfully submitted that the claims presently on

file differ essentially and in an unobvious, highly advantageous manner from the constructions disclosed in the reference.

Turning now to the reference, it can be seen that the patent to Barthomeuf discloses a hydraulic pressure amplifier. Applicant submits that Barthomeuf does not disclose the presently claimed invention.

A high pressure piston must be in a position to produce a high pressure. This objective is achieved by a high pressure piston in that the piston has a smaller cross-sectional surface as a low pressure piston. When the low pressure piston is acted upon by a pressure, then the high pressure piston translates this pressure in proportion to the surfaces from the low pressure piston to the high pressure piston.

If one applies this principle to Barthomeuf, then the high pressure piston is indicated with the reference numerals 19, 20. The low pressure piston has the reference numeral 18. It has two different size pressure surfaces. These are necessary because the amplifying piston must operate in two directions. In one direction (from left to right) the low pressure piston is continuously acted upon by a pressure from the pressure source 31 via a line 32. In

the opposite direction the low pressure piston 18 is alternately connected with the pressure from the source 31 and the pressure from the return line 33. The corresponding pressure surfaces S1 and S2 are dimensioned so that the surface S1 is twice as large as the surface S2. Correspondingly, the low pressure piston 18 is moved in both directions by equal pressures.

The Examiner argues that the high pressure piston has the reference numeral 21. However, the intermediate part 21 produces no pressure. The face blocks fluid from the orifice 29. The orifice 29 is expressly provided to prevent a mixing of the two fluids that are being conducted.

Accordingly, the connection between the two control passages is not between the hubs of the high pressure pistons 19, 20, but instead is within the hubs of the low pressure piston. Accordingly, a decoupling between the connection and the high pressure chamber 2, which the Examiner has correctly identified, is undertaken in a completely different manner than in the presently claimed invention.

Furthermore, in Barthomeuf the connection for the control valve is controlled by the low pressure cylinder and not by the

high pressure cylinder.

Additionally, in Barthomeuf a chamber 28 between the high pressure piston 19 and the low pressure piston is simply vented by an orifice 29. There is no mention of a back coupling for back flow. In the other pressure chamber 25 there is no such construction. There is a space 30 that is used for avoiding mixing different fluids, and is separated from the chamber 25 by seals.

Barthomeuf thus does not disclose the presently claimed invention.

In view of these considerations it is respectfully submitted that the rejection of claims 1 and 6-10 under 35 U.S.C. 102(b) and the rejection of claims 3-5 under 35 U.S.C. 103(a) over the above-discussed reference are overcome and should be withdrawn.

Reconsideration and allowance of the present application are respectfully requested.

Any additional fees or charges required at this time in connection with this application may be charged to Patent and Trademark Office Deposit Account No. 11-1835.

KN-69

Respectfully submitted,

By



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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450 Alexandria, VA 22313-1450, on August 20, 2007.

By:

  
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Date: August 20, 2007